

METHOD AND APPARATUS FOR PROVIDING OPTOELECTRONIC COMMUNICATION WITH AN ELECTRONIC DEVICE

ABSTRACT OF THE DISCLOSURE

An optoelectronic assembly for a computer system includes an electronic chip(s), a substrate, an electrical signaling medium, an optoelectronic transducer, and an optical coupling guide. The electronic chip(s) is in communication with the substrate, which is in communication with a first end of the electrical signaling medium. A second end of the electrical signaling medium is in communication with the optoelectronic transducer, and includes the optical coupling guide for aligning an optical signaling medium with the optoelectronic transducer. An electrical signal from the electronic chip is communicated to the optoelectronic transducer via the substrate and the electrical signaling medium. The optical transducer and electronic chip(s) share a common heat spreader, and communication to other groups of electronic chip(s) is done without the need for communication via a second level electrical package.